CIVIL AIM CONSULTANTS & ENGINEERS
(Building Geo-Tech & Highway Materials Testing Laboratory)
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QC ABSTRACT

Nameof Work:Dismantling & Construction of Culverts ,Removal of debries and Providing new Pre-cast RCC covering slabs,desilting of drains in Ward No.14,Bagalagunte, BBMP, Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	1:4:8	32.67 Cum	1	1	Cement / Sand, Aggregates	One Test Per Lot
2	M20	136.62 Cum	6	6	Concrete Cube Compressive Strength	-
3	Steel	8.20 Tonne	1	1	-	-
4	Slab (100mm)	356.40 Sqm	1	1	Concrete Core Compressive Strength	-

Cubes
0-5 Cum 1Set
6-15 Cum 2Set
16-30 Cum 3Set
31-50 Cum 4Set
Add 1set for extra 50Cum

CIVIL AIM CONSULTANTS & ENGINEERS

Assistant Executive Engineer
T. Dasarahalli Sub Division
Bagalagunte, BBMP
Bangalore-560073

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Job No.: CACE/BBMP/GN/W.No.14/2022-23 Date: 04.07.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. Gnanendra Murthy M D,** Contractor, Bangalore.
NAME OF THE WORK	:	Dismantling & Construction of Culverts ,Removal of debries and Providing new Pre-cast RCC covering slabs,desilting of drains in Ward No.14,Bagalagunte, BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		June - 2022
DATE OF TESTING		02.07.2022 to 04.07.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

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Job No.: CACE/BBMP/GN/W.No.14/2022-23 Date : 04.07.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency :Sri. Gnanendra Murthy M D, Contractor, Bangalore.

Name of Work : Dismantling & Construction of Culverts ,Removal of debries and Providing new Pre-cast RCC covering slabs,desilting of drains in Ward No.14,Bagalagunte, BBMP, Bangalore.

Date of Testing : 04.07.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	8.40	8.40	91.6	90-100
2.36	126	12.60	21.00	79.0	75-100
1.18	189	18.90	39.90	60.1	55-90
600 Micron	162	16.20	56.10	43.9	35-59
300 Micron	220	22.00	78.10	21.9	8-30
150 Micron	135	13.50	91.60	8.4	0-10

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Job No.: CACE/BBMP/GN/W.No.14/2022-23 Date : 04.07.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Gnanendra Murthy M D, Contractor, Bangalore.

Name of Work : Dismantling & Construction of Culverts ,Removal of debries and Providing new Pre-cast RCC covering slabs,desilting of drains in Ward No.14,Bagalagunte, BBMP, Bangalore.

Date of Testing : 04.07.2022

Material : Sand - Masonry Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	14	1.40	1.40	98.6	90-100
1.18	39	3.90	5.30	94.7	70-100
600 Micron	85	8.50	13.80	86.2	40-100
300 Micron	246	24.60	38.40	61.6	5-70
150 Micron	482	48.20	86.60	13.4	0-15

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Date : 04.07.2022

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency :Sri. Gnanendra Murthy M D, Contractor, Bangalore.

Name of Work : Dismantling & Construction of Culverts ,Removal of debries and Providing new Pre-cast RCC covering slabs,desilting of drains in Ward No.14,Bagalagunte, BBMP, Bangalore.

Date of Testing : 04.07.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	184	3.7	3.7	96.3	95-100
10	2430	48.6	52.3	47.7	25-55
4.75	1989	39.8	92.1	7.9	0-10

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Job No.: CACE/BBMP/GN/W.No.14/2022-23 Date : 04.07.2022

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency :Sri. Gnanendra Murthy M D, Contractor, Bangalore.

Name of Work : Dismantling & Construction of Culverts ,Removal of debries and Providing new Pre-cast RCC covering slabs,desilting of drains in Ward No.14,Bagalagunte, BBMP, Bangalore.

Date of Testing : 04.07.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	184	1.23	1.23	98.77	95-100
20	8233	54.89	56.11	43.89	30-70
10	3256	21.71	77.82	22.18	10-35
4.75	2815	18.77	96.59	3.41	0-5

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Job No.: CACE/BBMP/GN/W.No.14/2022-23

Date : 04.07.2022

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client :Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Gnanendra Murthy M D, Contractor, Bangalore.

Name of Work : Dismantling & Construction of Culverts ,Removal of debries and Providing new Pre-cast RCC covering slabs,desilting of drains in Ward No.14,Bagalagunte, BBMP, Bangalore.

Steel Dia/Length : 8mm,10mm, 12mm" Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 04.07.2022

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.396	549	626	1.14	13.5
2	TMT	10	0.617	556	638	1.15	14.5
3	TMT	12	0.89	565	644	1.16	15

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Job No.: CACE/BBMP/GN/W.No.14/2022-23 Date : 04.07.2022

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client :Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Gnanendra Murthy M D, Contractor, Bangalore.

Name of Work : Dismantling & Construction of Culverts ,Removal of debries and Providing new Pre-cast RCC covering slabs,desilting of drains in Ward No.14,Bagalagunte, BBMP, Bangalore.

Steel Dia/Length : 8mm,10mm" Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 04.07.2022

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.396	549	626	1.14	13.5
2	TMT	10	0.617	556	638	1.15	14.5

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Job No.: CACE/BBMP/GN/W.No.14/2022-23

Date: 19.07.2022

PRECAST SLAB 100 mm Thick(CORE) TEST REPORT

Client	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Contractor	:	Sri. Gnanendra Murthy M D, Contractor, Bangalore.
Name of Work	:	Dismantling & Construction of Culverts ,Removal of debries and Providing new Pre-cast RCC covering slabs,desilting of drains in Ward No.14,Bagalagunte, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	19.07.2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	84.00	0.385	2334.27	1.68	0.965	33.40	17.01	18.37	17.74	22.17
2	50.00	86.00	0.398	2356.97	1.72	0.970	34.20	17.42	18.81	18.24	22.80
3	50.00	88.00	0.405	2343.92	1.76	.0.974	34.90	17.77	19.20	18.70	23.37

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Job No.: CACE/BBMP/GN/W.No.14/2022-23 Date: 13.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore
Agency	: Sri. Gnanendra Murthy M D, Contractor, Bangalore.
Name of the work	: Dismantling & Construction of Culverts ,Removal of debries and Providing new Pre-cast RCC covering slabs,desilting of drains in Ward No.14,Bagalagunte, BBMP, Bangalore.
Sample ID	: Cement Concrete for Raft
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.07.2022	13.07.2022	8.165	332.3	14.77
2	06.07.2022	13.07.2022	8.152	345.2	15.34
3	06.07.2022	13.07.2022	8.146	356.2	15.83

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Job No.: CACE/BBMP/GN/W.No.14/2022-23 Date: 03.08.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore
Agency	: Sri. Gnanendra Murthy M D, Contractor, Bangalore.
Name of the work	: Dismantling & Construction of Culverts ,Removal of debries and Providing new Pre-cast RCC covering slabs,desilting of drains in Ward No.14,Bagalagunte, BBMP, Bangalore.
Sample ID	: Cement Concrete for Raft
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.07.2022	03.08.2022	8.165	505.2	22.45
2	06.07.2022	03.08.2022	8.159	512.3	22.77
3	06.07.2022	03.08.2022	8.184	484.9	21.55

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Job No.: CACE/BBMP/GN/W.No.14/2022-23 Date: 13.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore

Agency : Sri. Gnanendra Murthy M D, Contractor, Bangalore.

Name of the work : Dismantling & Construction of Culverts ,Removal of debries and Providing new Pre-cast RCC covering slabs,desilting of drains in Ward No.14,Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.07.2022	13.07.2022	8.169	336.3	14.95
2	06.07.2022	13.07.2022	8.185	345.2	15.34
3	06.07.2022	13.07.2022	8.154	352.8	15.68

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Job No.: CACE/BBMP/GN/W.No.14/2022-23 Date: 03.08.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore

Agency : Sri. Gnanendra Murthy M D, Contractor, Bangalore.

Name of the work : Dismantling & Construction of Culverts ,Removal of debries and Providing new Pre-cast RCC covering slabs,desilting of drains in Ward No.14,Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.07.2022	03.08.2022	8.169	501.2	22.28
2	06.07.2022	03.08.2022	8.184	512.3	22.77
3	06.07.2022	03.08.2022	8.152	484.6	21.54

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Job No.: CACE/BBMP/GN/W.No.14/2022-23 Date: 13.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore
Agency	: Sri. Gnanendra Murthy M D, Contractor, Bangalore.
Name of the work	: Dismantling & Construction of Culverts ,Removal of debries and Providing new Pre-cast RCC covering slabs,desilting of drains in Ward No.14,Bagalagunte, BBMP, Bangalore.
Sample ID	: Cement Concrete for Raft
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.07.2022	13.07.2022	8.168	336.3	14.95
2	06.07.2022	13.07.2022	8.185	345.2	15.34
3	06.07.2022	13.07.2022	8.176	356.2	15.83

Note:

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

Assistant Executive Engineer
T. Dasarahalli Sub Division
Bagalagunte, BBMP
Bangalore-560073

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/GN/W.No.14/2022-23 Date: 03.08.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore**

Agency : **Sri. Gnanendra Murthy M D, Contractor, Bangalore.**

Name of the work : Dismantling & Construction of Culverts ,Removal of debries and Providing new Pre-cast RCC covering slabs,desilting of drains in Ward No.14,Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.07.2022	03.08.2022	8.165	502.2	22.32
2	06.07.2022	03.08.2022	8.146	512.2	22.76
3	06.07.2022	03.08.2022	8.152	484.9	21.55

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Srikanth SC

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Job No.: CACE/BBMP/GN/W.No.14/2022-23

Date: 15.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore

Agency : Sri. Gnanendra Murthy M D, Contractor, Bangalore.

Name of the work : Dismantling & Construction of Culverts ,Removal of debries and Providing new Pre-cast RCC covering slabs,desilting of drains in Ward No.14,Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.07.2022	15.07.2022	8.136	336.3	14.95
2	08.07.2022	15.07.2022	8.165	345.2	15.34
3	08.07.2022	15.07.2022	8.146	356.2	15.83

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Job No.: CACE/BBMP/GN/W.No.14/2022-23

Date: 05.08.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore**

Agency : **Sri. Gnanendra Murthy M D, Contractor, Bangalore.**

Name of the work : Dismantling & Construction of Culverts ,Removal of debries and Providing new Pre-cast RCC covering slabs,desilting of drains in Ward No.14,Bagalagunte, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.07.2022	05.08.2022	8.165	505.2	22.45
2	08.07.2022	05.08.2022	8.145	513.6	22.83
3	08.07.2022	05.08.2022	8.152	484.9	21.55

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore**

Agency : **Sri. Gnanendra Murthy M D, Contractor, Bangalore.**

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Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.07.2022	15.07.2022	8.169	335.2	14.90
2	08.07.2022	15.07.2022	8.184	346.5	15.40
3	08.07.2022	15.07.2022	8.146	352.8	15.68

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Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.07.2022	05.08.2022	8.169	500.2	22.23
2	08.07.2022	05.08.2022	8.184	516.2	22.94
3	08.07.2022	05.08.2022	8.154	484.9	21.55

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Assistant Executive Engineer
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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.07.2022	15.07.2022	8.168	339.3	15.08
2	08.07.2022	15.07.2022	8.174	345.5	15.36
3	08.07.2022	15.07.2022	8.156	352.6	15.67

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
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2	08.07.2022	05.08.2022	8.146	512.6	22.78
3	08.07.2022	05.08.2022	8.152	485.6	21.58

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